



**marathon™**  
Special Products

Product Data Sheet

**EPBAD74**

Power Distribution Block

## 335 Amps 600 Volts AC/DC

### Wire Range

- Line: (1) 400kcmil - #6 AWG (185 - 16 mm<sup>2</sup>) and (1) 3/0 - #14 (70 - 2.5 mm<sup>2</sup>)
- Load: (8) #2 - 14 AWG (35 - 2.5 mm<sup>2</sup>)

### Electrical Ratings

- 335 Amps
- 600V per UL 1059 & CSA 22.2 No.158, class B & C requirements
- 1000 V AC/DC per IEC 60947-7-1 (CE)
- SCCR of 10,000 A (default for terminal blocks).
- CU7AL - 75°C connector terminal rating with copper or aluminum wire
- Touch protection: IP-20 (IEC 60529)
- Factory & Field Wiring

### Agency Compliance

- UR - UL Recognized Terminal Block, Evaluated to UL 1059, File No.XCFR2.E62806
- CSA - certified to C22.2 No. 158, File No. LR19766 (wire classes B & C only)
- CE compliant to IEC 60947-7-1

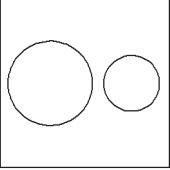
### Material Information

- Insulator base:
  - Thermoplastic
  - Flammability rating of insulator base UL94V0
  - Insulator base temperature rating: -40°C to 125°C (UL RTI)
- Connector: aluminum, tin plated
- Line terminal set screws: aluminum, tin plated
- Load terminal set screws: steel, nickel plated
- Connector mounting screws: steel, zinc plated
- RoHS compliant

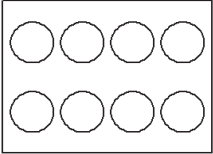
A Regal Brand

**REGAL**

## Termination Specifications

| Line Side                                                                         | Terminal | Wire Size<br>(CU Stranded) | Torque                   | Wires /<br>Terminal | Wire Class (UL) <sup>1</sup> |
|-----------------------------------------------------------------------------------|----------|----------------------------|--------------------------|---------------------|------------------------------|
|  | 400 - 6  | 400 - 2/0                  | 42.4 N·m<br>(375 lbf·in) | 1                   | B, C, G, H, I (DLO)          |
|                                                                                   |          | 1/0 - 2                    | 31.1 N·m<br>(275 lbf·in) | 1                   | B, C, G, H, I (DLO)          |
|                                                                                   |          | 4 - 6                      | 31.1 N·m<br>(275 lbf·in) | 1                   | B, C                         |
|                                                                                   | 3/0 - 14 | 3/0                        | 13.6 N·m<br>(120 lbf·in) | 1                   | B, C                         |
|                                                                                   |          | 2/0 - 1                    | 13.6 N·m<br>(120 lbf·in) | 1                   | B, C, G, H, I (DLO)          |
|                                                                                   |          | 2 - 6                      | 9.0 N·m (80 lbf·in)      | 1                   | B, C, G, H, I (DLO)          |
|                                                                                   |          | 8                          | 4.5 N·m (40 lbf·in)      | 1                   | B, C, G, H, I (DLO)          |
|                                                                                   |          | 10 - 14                    | 4.5 N·m (40 lbf·in)      | 1                   | B, C, I (DLO)                |

- Aluminum stranded wire range: 400 kcmil - 6 AWG (185 - 16 mm<sup>2</sup>)
- Wire strip length: 1 7/16 in (36mm) & 1 in. (25mm)
- IP-20 protection: 400 kcmil - 300 kcmil & 3/0 - 4 AWG
- Terminal screw drive: 8 mm & 6 mm hex

| Load Side                                                                           | Wire Size<br>(CU Stranded) | Torque                 | Wires /<br>Terminal | Wire Class (UL) <sup>1</sup> |
|-------------------------------------------------------------------------------------|----------------------------|------------------------|---------------------|------------------------------|
|  | 2 - 4                      | 9.0 N·m<br>(80 lbf·in) | 1                   | B, C, G, H, I (DLO)          |
|                                                                                     | 6                          | 9.0 N·m<br>(80 lbf·in) | 1 - 2               | B, C, G, H, I (DLO)          |
|                                                                                     | 8                          | 4.5 N·m<br>(40 lbf·in) | 1 - 2               | B, C, G, H, I (DLO)          |
|                                                                                     | 10 - 14                    | 4.5 N·m<br>(40 lbf·in) | 1 - 4               | B, C, I (DLO)                |

- Wire strip length: 5/8 in. (16mm)
- IP-20 protection: 2 - 12 AWG
- Terminal screw drive: 5 mm hex

<sup>1</sup> For information on copper stranded wire classes please reference:  
<http://www.marathonsp.com/CatalogPDFs/Flexible-Stranded-Wire.pdf>

## Installation & Accessories

- Din-Rail mountable on 35 X 7.5, 2m long, slotted: MN35-2
- When mounting blocks on Din rail, it is recommended to individually mount power blocks. Multi-line configurations become increasingly difficult to mount as the line length increases.
- End Brackets: MSK35
- Safety plugs: EPB Plug 400 Line side, EPB Plug 2/0 Line side, EPB Plug 2 Load side
- Marker cards:
  - White plastic inserts: EPB Marker Card
- Allen wrenches (6mm):
 

|                 | 5 mm    | 6 mm    | 8mm     |
|-----------------|---------|---------|---------|
| • S & K tools   | 45955   | 45956   | 45958   |
| • Snap-on tools | FAML5E  | FAML6E  | FAML8E  |
| • MAC tools     | XDLS5MM | XDLS6MM | XDLS8MM |
| • McMaster Carr | 8367A23 | 8367A24 | 8367A26 |
| • Armstrong     | 38-709  | 38-711  | 38-713  |

## Drawing

